

ERRATA FOR PART III. RISK CHARACTERIZATION

Table 4-2 which appears on the following pages updates the version included in the September 2000 SAB Review Draft (EPA/600/P-00/001Bg).

Table 4-2. Quantitative inventory of environmental releases of TEQ_{DF}-WHO₉₈ in the United States

| Emission source category | Confidence rating ^a Reference year 1995 | | | Confidence rating ^a Reference year 1987 | | |
|---|---|-------------------|-------|---|-------------------|-------|
| | A | B | C | A | B | C |
| <i>Releases (g TEQ_{DF}-WHO₉₈/yr) to Air</i> | | | | | | |
| Waste Incineration | | | | | | |
| Municipal waste incineration | | 1250 | | | 8877 | |
| Hazardous waste incineration | | 5.8 | | | 5 | |
| Boilers/industrial furnaces | | | 0.39 | | | 0.78 |
| Medical waste/pathological incineration | | | 488 | | | 2590 |
| Crematoria | | | 9.1 | | | 5.5 |
| Sewage sludge incineration | | 14.8 | | | 6.1 | |
| Tire combustion | | | 0.11 | | | 0.11 |
| Pulp and paper mill sludge incinerators ^f | | | | | | |
| Power/Energy Generation | | | | | | |
| Vehicle fuel combustion - leaded ^b | | | 2 | | | 37.5 |
| - unleaded | | | 5.9 | | | 3.6 |
| - diesel | | | 35.5 | | | 27.8 |
| Wood combustion - residential | | | 62.8 | | | 89.6 |
| - industrial | | 27.6 | | | 26.4 | |
| Coal combustion - utility | | 60.1 | | | 50.8 | |
| Oil combustion - industrial/utility | | | 10.7 | | | 17.8 |
| Other High Temperature Sources | | | | | | |
| Cement kilns (hazardous waste burning) | | | 156.1 | | | 117.8 |
| Lightweight aggregate kilns burning hazardous waste | | | 3.3 | | | 2.4 |
| Cement kilns (nonhazardous waste burning) | | | 17.8 | | | 13.7 |
| Petroleum refining catalyst regeneration | | | 2.21 | | | 2.24 |
| Cigarette combustion | | | 0.8 | | | 1 |
| Carbon reactivation furnaces | | | 0.08 | | | 0.06 |
| Kraft recovery boilers | | 2.3 | | | 2 | |
| Minimally Controlled or Uncontrolled Combustion | | | | | | |
| Backyard refuse burning in barrels ^d | | | 628 | | | 604 |
| Metallurgical Processes | | | | | | |
| Ferrous metal smelting/refining | | | | | | |
| - Sintering plants | | 28 | | | | 32.7 |
| Nonferrous metal smelting/refining | | | | | | |
| - Primary copper | | <0.5 ^e | | | <0.5 ^e | |
| - Secondary aluminum | | | 29.1 | | | 16.3 |
| - Secondary copper | | | 271 | | | 983 |
| - Secondary lead | | 1.72 | | | 1.29 | |
| Drum and barrel reclamation | | | 0.08 | | | 0.08 |
| Chemical Manufac./Processing Sources | | | | | | |
| Ethylene bichloride/vinyl chloride | | 11.2 | | | | |
| Total quantified releases to air^c | | 3125 | | | 13515 | |

| Emission source category | Confidence rating ^a Reference year 1995 | | | Confidence rating ^a Reference year 1987 | | |
|---|---|------|---|---|---|---|
| | A | B | C | A | B | C |
| Releases (g TEQ/yr) to Water | | | | | | |
| Chemical Manuf./Processing Sources | | | | | | |
| Bleached chemical wood pulp and paper mills | 19.5 | | | 356 | | |
| Ethylene bichloride/vinyl chloride | | 0.43 | | | | |
| Total quantified releases to water ^c | 19.93 | | | 356 | | |
| Releases (g TEQ/yr) to Land | | | | | | |
| Chemical Manuf./Processing Sources | | | | | | |
| Bleached chemical wood pulp and paper mill sludge | 1.4 | | | 14.1 | | |
| Ethylene dichloride/vinyl chloride | | 0.73 | | | | |
| Municipal wastewater treatment sludge | 76.6 | | | 76.6 | | |
| Commercially marketed sewage sludge | 2.6 | | | 2.6 | | |
| 2,4-Dichlorophenoxy acetic acid | 28.9 | | | 33.4 | | |
| Total quantified releases to land ^c | 110.23 | | | 126.7 | | |
| Overall quantified releases to the open and circulating environment | 3255 | | | 13998 | | |

Confidence Rating A = Characterization of the Source Category judged to be **Adequate for Quantitative Estimation** with **High Confidence** in the **Emission Factor** and **High Confidence** in **Activity Level**.

Confidence Rating B = Characterization of the Source Category judged to be **Adequate for Quantitative Estimation** with **Medium Confidence** in the **Emission Factor** and at least **Medium Confidence** in **Activity Level**.

Confidence Rating C = Characterization of the Source Category judged to be **Adequate for Quantitative Estimation** with **Low Confidence** in either the **Emission Factor** and/or the **Activity Level**.

^aA confidence rating reflects EPA's judgment as to the adequacy of information pertaining to the emission factor and activity level.

^bLeaded fuel production and the manufacture of motor vehicle engines requiring leaded fuel for highway use have been prohibited in the United States. (see Section 4.1 for details.)

^cTOTAL reflects only the total of the estimates made in this report.

^dThis refers to conventional pollutant control, not dioxin emissions control. Very few of the sources listed in this inventory specifically control for dioxin emissions.

^eCongener-specific emissions data were not available; the I-TEQ_{DF} emission estimate was used as a surrogate for the TEQ_{DF}-WHO₉₈ emission estimate.

^fIncluded within estimate for Wood Combustion - Industrial.